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CHAPTER REPORTS
1917-18
NORTHWESTERN CHAPTER

During the academic year 1917-18 seven meetings were held for the presentation of scientific papers as indicated in the list below.

November 8, 1917. Program by the Department of Chemistry. Accuracy in the Determination of Atomic Weights, by Prof. M. A. Hines; How the War is Affecting Chemistry, by Dr. W. L. Lewis; Chemistry in Columbia University, by Dr. W. V. Evans.

December 13, 1917. Program by the department of Zoology. The Question of Commissurot Neurones in the Autonomic Ganglia, by Dr. S. E. Johnson; Structure of the Sympathetic Trunks and the Splanchnic Nerves, by Dr. S. W. Ranson; Mechanism of Efficient Vision, by Dr. L. B. Arey; Interrelation of Soma and Germ Plasm in Insects, by Dr. S. I. Kornhauser.

February 14, 1918. What American Science is doing for Aviation, by Prof. John F. Hayford.

March 14, 1918. The Sidereal System, by Prof. Wm. D. MacMillan.

April 25, 1918. Prophylaxis, by Prof. J. P. Simonds.

May 24, 1918. Earliest Reptiles and Amphibian of America, by Prof. S. W. Williston.

Four of these meetings were preceded by business sessions. Before the scientific program of January 17 about twenty members met for an inexpensive dinner and business meeting, the special order being Methods and Suggestions for the Stimulation and Increase of Original Scientific Production at Northwestern University. The discussion was opened by President Kornhauser and a most profitable meeting resulted.

The following new members were elected during the year :

FROM THE FACULTY

ARTHUR WILLIS BARTON, A.B.

Chemistry

A comparison of methods for the determination of the proteolytic activity of pancreas preparations (with J. H. Long), Jour. Am. Chem. Soc., 36:2151-66, Oct. 1914.

ARTHUR DAVENPORT BLACK, M.A., M.D., D.D.S.

Dentistry

125 papers in technical dental journals.

- ADELAIDE ALBERTINE SPOHN, M.S. *Chemistry*
 On the chemical composition of white and yellow egg yolk of the fowl and pigeon (with Oscar Riddle). *Am. Jour. Physiol.*, 41:397-408, Sept. 1916. When a gland functions for the first time is its secretion the equivalent of subsequent secretion? (with Oscar Riddle) *Am. Jour. Physiol.*, 41:419-429, 1916.
- EDWARD CHACE TOLMAN, Ph.D. *Psychology*
 Retroactive inhibitions as affected by conditions of learning. *Psychological Monographs*, 25:30, 1917.
- WILLIAM ZINKEISEN, Ph.D. *Chemistry*
 Oxalendiamidoxim und Oxalenanilidoximamidoxim. *Deutsch. Chem. Gesellschaft*, 22: 2946-57, 1889.

GRADUATE STUDENTS

- HUGH GEHILE BERSIE, B.S. *Engineering*
 Was called for National Meteorological Service in the Signal Corps
- THEODORE DOLL, B.S. *Mathematics*
 Thesis: The errors in Gauss' Method of Quadrature
- FRANCIS MCMURTRIE HOWELL, B.S. *Engineering*
 Thesis: Compression Tests in Column Materials
- THOMAS STAGER MOULDING, B.S. *Engineering*
 Was called for National Meteorological Service in the Signal Corps

UNDERGRADUATES

- HUGH PATERSON *Chemistry*
 Because of very high grade work
- EDGAR WERTHIM *Chemistry*
 Because of very high grade work

LEWIS H. WELD, *Secretary.*

1918-19

During the academic year 1918-19 six meetings were held for the reading of scientific papers as indicated in the list below:

January 30, 1919. The Suppression of Endemic Diseases, by Dr. Arthur I. Kendall.

February 20, 1919. Forest and Chaparral of California, by Dr. William S. Cooper.

March 13, 1919. Development of Explosives, by Dr. Ward V. Evans.

April 10, 1919. Modern Gravity Methods and Research, by Prof. William H. Burger.

May 8, 1919. The Structure of the Atom and the Evolution of the Elements, by Prof. W. D. Harkins.

June 6, 1919. Electro-Catalytic Reactions, by Prof. William C. Bauer.

Business was transacted at three of these meetings, either before or after the scientific paper of the evening. The following were elected to active membership during the year:

FROM THE FACULTY

LEONARD PERCY DOVE

Geology

Pyrite in the Coals of Indiana. Rept. Dept. Geol. and Nat. Res. Indiana for 1918.

JESSICA MAY YOUNG

Astronomy

Five papers on the Elements and Ephemeris of three different Comets. Lick. Obs. Bulls, 268, 280, 296, and Harvard Obs. Bull. 637.

GRADUATE STUDENTS

FRANK HAROLD REULING

Pathology

Acquired Immunity to an Animal Parasite. Jour. of Infect. Diseases, Apr. 1919.

MARY CONSTANCE BLAIR

Botany

Studies in the Morphology and Embryology of *Reboulia hemispherica* (L.) Raddi. Thesis for MS.

The following were elected to associate membership:

FROM THE FACULTY

ARTHUR B. CARR

Physics

GRADUATE STUDENTS

NIEL FREEBORN BEARDSLEY

Physics

FRANK D. DANIELSON

Engineering

FRANKLIN MOHR

Engineering

LILLIAN MARGUERITE SIMMONS

Botany

LEWIS H. WELD, *Secretary*.

THE CORNELL CHAPTER

1917-18

During the year 1917-18, seven meetings were held, one of which was devoted entirely to Chapter business. Owing to the disorganized conditions, it has been impossible to carry out any elaborate scheme of meetings, so that the work of the year has not been up to the high standard set in previous seasons. The program covered

subjects bearing on the prosecution of the war, and other topics of special current interest, and the speakers were, with one exception, from the local community. The lectures were as follows:

October 23, The Art of Flying, by Mr. Raymond Ware, of the Morse-Thomas Aircraft Corporation.

December 13, Experiences on the Firing Line, by Captain G. M. James, of the British Army.

January 15, The Scientific Basis of Camouflage, by Mr. Louis Agassiz Fuyertes.

February 19, Surgery Back of the Firing Line, by Dr. W. F. Lee.

March 26, The Re-education of the Crippled Soldier, by Professor George A. Works.

April 20, Coal Mining with a Camera, by Professor Charles H. Richardson, of Syracuse University.

In the Fall, twelve Associate members were elected from the Senior class and from the Graduate school, as follows:

GRADUATE STUDENTS

RALPH EMERSON BITNER, B.S.	<i>Physics</i>
JOHN CHRISTOPHER SCHELLENG, A.B.	<i>Physics</i>
ERNEST EDWARD SMITH, A.B.	<i>Physics</i>
HYLA STOWELL WATERS, A.B.	<i>Histology and Embryology</i>

MEMBERS OF THE CLASS OF 1918

DAVID HOUSER BANKS, B.S.	<i>Mechanical and Electrical Engineering</i>
JOSEPH ADAM BECKER	<i>Physics-Mathematics</i>
LEO BEHR	<i>Mechanical Engineering-Physics</i>
HENRY ARTHUR GAERTNER	<i>Electrical Engineering-Physics</i>
JAMES MEADE HYATT	<i>Physics-Mathematics</i>
PIERRE MERTZ	<i>Physics-Mathematics</i>
HERMENEGILDO BALBINO REYES	<i>Mechanical and Electrical Engineering</i>
WILLIAM PERRINE VAN WAGENEN	<i>Histology and Embryology-Physiology</i>

At the last meeting of the year, thirty-four candidates were initiated into active membership. Three of these were elected to Associate membership last Fall. The list of new Active members follows.

MEMBERS OF THE FACULTY OF CORNELL UNIVERSITY

WILLIAM ARTHUR HAGAN, D.V.M. (Kansas State Agricultural College, 1915), M.S. (Cornell, 1917) *Instructor in Pathology*

Veterinary

Etiology and mode of infection of white scours in calves. Study of the distribution of Sclerostomes, etc.

NON RESIDENTS

EDWARD PHILIP THEODORE TYNDALL, B.A. (Richmond College, 1912) *Assistant Physicist, U. S. Bureau of Standards*

Physics

Note on the absorption of tetrachlorophenolphthalein. The absorption of acetone. The visible and ultra-violet absorption of the orcinolphthaleins.

GRADUATE STUDENTS

EUGENE CURTIS AUCHTER, B.S.A. (Cornell, 1911) *Assistant in Pomology, Associate Professor of Horticulture, West Virginia University.*

Pomology

Five years' investigation in apple thinning. The apple as affected by varying degrees of dormant and seasonal pruning. Investigations of pruning, of self-sterility of apples, of the response of fruit-trees to fertilizers.

AARON BODANSKY, B.S. (Cornell, 1915) *Instructor in Biochemistry Physiology and Biochemistry*

Physiology and Biochemistry

The chymase of *Solanum elaeagnifolium*. Chemistry of bacterial metabolism. The enzymes of *Solanum elaeagnifolium*.

HAROLD SIMMONS BOOTH, A.B. (Western Reserve, 1915), A.M. (same, 1916) *Fellow in Chemistry.*

Chemistry

The density of silicon tetrafluoride. The density of the air in Cleveland. The silver-nitrogen ratio.

HSIEH-CHIU CHIU, B.S., in C.E. (Gov't. Inst. of Tech., Shanghai)

Civil Engineering

A critical comparison of the methods of determining the stresses in swing bridges.

CORA LOUISA FRIEDLINE, A.B. (University of Nebraska, 1913), A.M. (Same, 1915)

Psychology

A study of cutaneous perception.

JOSEPHINE MIXER GLEASON, A.B. (Vassar, 1914) *Instructor in Psychology.*

Psychology

An experimental study of the psychology of relations.

- ANGEL KAINGAL GOMEZ, D.V.M. (University of the Philippine Islands, 1914) *Veterinary*
An outbreak of an undescribed infectious disease of guinea pigs.
- STUART DEMING JACKSON, A.B. (Cornell, 1916) *Instructor in Chemistry. Chemistry*
Ortho-cresol-sulphon-phthalein and some of its derivatives.
- JOSEPH PETER KOLLER, B.Chem. (Cornell, 1918) *Chemistry*
The preparation of selenic acid and some of its compounds (thesis)
- JOHN IRVIN LAURITZEN, B.S. (Utah Agr. College, 1914) O. F. Curtis, *et al.*
Relation of temperature and humidity to infection by certain pathogenic fungi (thesis)
- ASA EMANUAL MCKINNEY, A.B. (University of Indiana, 1914), A.M. (same, 1915) *Chemistry*
Electrodeposition of smooth solid lead from lead nitrates solutions. Many small investigations at the Agr. Expt. Station. Study of defective small-arms ammunition.
- NEMESIO BLANCO MENDIOLA, B.S. (University of the Philippine Islands, 1914), M.S. (same, 1916) *Plant Breeding*
A study of Philippine bast fibers. Some phycomycetous diseases of the Philippines. Variation and selection within colonial lines of *Lemna minor* L. (thesis)
- FRANKLIN WILLIAM PETTEY, B.A. (University of Maine) *Entomology*
The codling moth and its control in the Western Province. The quince borer of South Africa. A biological study of the codling moth as it occurs in South Africa. A revision of the genus *Sciara* of the family Mycetophilidae.
- WILLIAM MALCOMB STOBBS, A.B. (Cornell, 1915) *Instructor in the Medical College. Medical*
The development of the pharyngeal musculature in man. The development of the blood supply of the Hypophysis cerebri in man.
- VIDAL ARECO TAN, B.A. (University of the Philippine Islands, 1913) J. H. Tanner, *et al*
Homological transformations (thesis)
- JOHN GRAHAM THOMPSON, B.Chem. (Cornell, 1915) *Chemistry*
Overvoltage. Zirconia as a Refractory.
- FRANK BURKETT WANN, A.B. (Wabash, 1914) *Instructor in Botany (College of Agr.) Botany (Agr.)*
Possible nitrogen fixation in certain species of fresh-water algae. Enzyme studies in green algae.

- RALPH WALTER GRAYSTON WYCKOFF, B.S. (Hobart, 1916) *Instructor in Chemistry* Chemistry
 The detection of the rare elements by means of their arc spectra. The chemistry of caesium.
- BENJAMIN PERCY YOUNG, B.S. (Kansas, 1908) M.S., (Same, 1916) *Instructor in Entomology* Entomology
 Ecology of *Paleacrita vernata*.
- PAUL THOMAS YOUNG, A.B. (Occidental College, 1914), A.M. (Princeton, 1915) *Sage Scholar in Psychology* Psychology
 An experimental study of mixed feelings.

MEMBERS OF THE CLASS OF 1918

- JOSEPH ADAM BECKER (*Associate member of the Chapter*) *Assistant in Physics* Physics
 The change of resistance of thin films of bismuth in a magnetic field.
- WILLIAM ARTHUR BILLINGS, D.V.M. (Cornell, Feb., 1918) *Assistant in Diagnosis for two years* Veterinary
 Phenol death point of *Bacterium tuberculosis*.
- BENJAMIN JONATHAN FINKELSTEIN Veterinary
 Coagulation time of the blood of the domestic animals. Orokinase and Amylases in the mouth secretions of the domestic animals.
- HARRISON PORTER HOOD Chemistry
 Adsorption by charcoal and an attempt to make a synthetic charcoal.
- JAMES MEAD HYATT (*Associate member of the Chapter*) *Assistant in Physics* Physics
 Candle-power variations in incandescent lamps for alternating currents of various frequencies. The ultra-violet absorption of anthracene, benzene, and other organic compounds.
- HAROLD DRAPER KINNEY, *Assistant in Chemistry* Chemistry
 The chlorination and bromination products of fluoran.
- PIERRE MERTZ (*Associate member of the Chapter*) *Assistant in Physics* Physics
 Effect of superimposed harmonics on hysteresis
- HAROLD MEADE MOTT-SMITH Mathematics
- MELVIN NICHOLS, *Assistant in Chemistry* Chemistry
 Dinitroso-resorcinol and some of its derivatives.
- EMILY SWEETLAND REED Entomology
 The May-fly ovipositor.
- DAVID SCHULTZ, *Assistant in Chemistry* Chemistry
 Investigation of certain gases for the Bureau of Mines.

ALUMNI

WILBER ALBERT CARTER, M.E. (Cornell, 1913) *Research Engineer*
The Detroit Edison Co., Detroit, Mich. *Sibley College*
Electrically heated japanning ovens. Electric heating elements. Performance of steel tube economizers. Many other titles.

CORNELL CHAPTER, 1918-19

During the year 1918-19 there were fewer meetings held than has been usual in the past. The attention of the University members was largely directed to investigations along war lines, many of the members being engaged on governmental problems. This spring has seen a gradual growth in the Chapter's activities and it is hoped that by next year the usual interesting program activities will be seen. The following meetings were held during the past season:

November 4, 1918, Lecture by Prof. W. F. Wilcox on Schlieffen versus Foch, An Amateur Study in Strategy. (Public lecture)

December 19, 1919. Public Lecture by Prof. Ernest Blaker on Some Principles of Flight. Prof. Blaker was at that time with the Ground School for Aviators maintained by the government at Cornell University.

March 11, 1919. Public Lecture by Dr. Arthur L. Day on The Volcano Kilauea in Action. Dr. Day told of his observations made while inside the crater of the volcano when in action. This was one of the best lectures this Chapter had had the pleasure of hearing.

May 10, 1919. Business meeting. Special order of business election of active members of whom 25 were elected as listed below. Following the business meeting there was a demonstration by the department of Entomology in which some lines of investigation of that department were exhibited.

May 17, 1919. Business meeting. Special order of business initiation of newly elected members. Following the initiation exercises light refreshments were served followed by an interesting program of talks and music.

June 2, 1919. Public Lecture by Dean V. A. Moore on The Role of Bacteriology in the War. This lecture was followed by a business meeting called for the special business of election of officers for the coming year. The officers elected will be found elsewhere in this issue of the *QUARTERLY*. At this meeting it was voted that

the offices of recording and corresponding secretary be filled by one member for the coming year when amendments to the by-laws of the Chapter can be made to make this plan permanent. The selection of two members to represent this Chapter on the Committee to provide Sigma Xi Fellowships was referred to the Executive Committee of the Chapter, with power. In conformity with this action the Executive Committee appointed F. K. Richtmyer and an alumni member to be selected by Prof. Richtmyer.

MEMBERS ELECTED MAY 10, 1919

MEMBERS OF THE FACULTY OF CORNELL UNIVERSITY

EDWARD SEWALL GUTHRIE, B.S. (Iowa Agri. College, 1905), M.S.A. (Cornell, 1910), Ph.D. (Cornell, 1913) *Professor of Dairy Industry* *Dairy Industry*

Metallic Flavor in Dairy Products. Variations in the Tests for Fat in Cream and Skimmed Milk (with G. C. Supplee). Two Factors Causing Variation in the Weight of Print Butter (with H. M. Pickerill). Distribution of Moisture and Salt in Butter (with H. E. Ross). Concerning Rancidity of Butter. Butter Shrinkage.

GUSTAVE FREDERICK HEUSER, B.S. (Cornell 1916) Ph.D. (same, 1918) *Assistant Professor of Poultry Husbandry*

Poultry Husbandry

A study of the Mating Behavior of the Domestic Fowl (Thesis for Master's Degree). Growth and Development of the Domestic Fowl with special Reference to the Male (Thesis for Doctor's degree). Summary of the First Year Agriculture in New York State High Schools. Influence of Heredity on Educability.

GRADUATE STUDENTS (15)

PAUL LEVERNE BAYLEY, A.B. (Univ. of Arkansas, 1913) A.M. (Univer. of Illinois, 1914) *Instructor in Physics* *Physics*
Capacity between a wire and a square conduit by the method of electrical images.

LESLIE ELSWORTH CARD, B.S. (Cornell, 1914) *Instructor in Poultry Husbandry* *Poultry Husbandry*

3rd, 4th, 5th, Annual International Egg Laying Contest (Co-author). A Study of Egg Production in White Leghorns. Connecticut Experimental Station Bulletin, Poultry House Construction (Co-author). Connecticut Experimental Station Bulletin, Milk Feeding and its Influence on Growth (Co-author). Rearing and Mortality of Chickens (Senior author).

- JACOB ROLAND COLLINS, B.S. (Ohio Univ. 1912), M.S. (Purdue Univ. 1914) *Instructor in Physics* *Physics*
 High Temperature Measurements (with Prof. Ferry). Analysis of Synchronous Motor Curves.
- HARRY W. DYE, B.S.A. (Wisconsin Univ.), M.S. (Cornell) *Fellow in Plant Pathology* *Plant Pathology*
 The Comparative Resistance of Strains of Celery to Late Blight (*Septoria Petroselini*). Three investigations on different diseases of Lettuce.
- WILLIAM HENRY EYSTER, A.B. (Bucknell 1914), A.M. (Cornell 1915) *Assistant in Plant Breeding* *Plant Breeding*
 Linkage Relations of the Tunicate Character in Maize. Genetic Studies of Certain Culm Abnormalities in Maize.
- JOHN EDWARD FOGLESONG, A.B. (Wabash, 1910), M.A. (Ohio State Univ., 1912) Ph.D. (Cornell 1919) *Instructor in Chemistry* *Chemistry*
 Action of Phosphorous Acid on Mercuric Chloride and the Law of Mass Action (Co-author). Cooling Curves in the System Ammonium Nitrate Ammonium Chlorate and Water (For Ordnance Dept., U. S. A.).
- EDWIN F. HOPKINS, B.S. (Cornell, 1915) *Instructor in Plant Pathology* *Plant Pathology*
 The Botrytes Disease and Other Diseases of Tulips (Thesis for Doctor's Degree). The Botrytes Blight of Buckwheat. Physiological Studies on Botrytes. Two Subjects of Investigation while in the Chemical Warfare Service, U. S. A.
- LOUISE KELLEY, A.M. (Mt. Holyoke College, 1917) *Fellow in Chemistry* *Chemistry*
 Synthesis of the Polypeptide-hydantoin: Tyrosylalanine-hydantoin. Parahydroxy-Benzoyl-Benzoic Acid and Some of its Derivatives.
- DIH YUIN LEE, B.S. (St. John's Univ. 1915) *Physics*
 Temperature-resistance Effects in Thin Metal Films (Master's thesis).
- HELEN ELIZABETH MURPHY, B.S. (Cornell, 1917) *Assistant in Biology* *Entomology*
 The Egg-Laying Habits of the Caddisfly, *Brachycentrus*. The Mouth-parts of the Ephemerida.
- SOJI NISHIKAWA, Ph.D. (Imperial Univ. of Tokio) *Honorary Fellow in Physics* *Physics*
 Structure of Some Crystals of Spinel Group. Numerous other Titles. General Investigations of X-Ray Phenomena.
- SEIICHIRO NODA (Equivalent to E.E., Kiota) *Honorary Fellow in Physics* *Physics*
 On the Induction Motor under Cyclical Operation. The Matrix Method of Treating Alternating Current Phenomena.

KATHRYN LILLIS SLINGERLAND, A.B. (Smith College, 1918) *Fellow in Zoology.* *Zoology*

Comparative Study of Jacobson's Organ in Caudate Amphibia (Master's thesis).

EDWINA MARIA SMILEY, B.A. (Wellesley College) *Instructor in Plant Pathology.* *Plant Pathology*

The Phyllosticta Blight of Snapdragons (Master's Thesis). The Rust Disease of Snapdragons (*Puccinia Antirrhini*).

JAY R. TRAVER, A.B., (Cornell 1918) *Assistant in Entomology.* *Entomology*

Ecological Relations of the Members of the Oecophorid genus *Depressaria*. Ecology of the Mayfly, *Blasturus cupidus*.

MEMBERS OF THE CLASS OF 1919

ARTHUR WALKER BULL, *Assistant in Chemistry* *Chemistry*

Investigation of the Possible Action of Iodine, Iodides, or Iodates upon Ammonium Nitrate and upon Amatol Containing 20% of TNT. (For Ordnance Dept., U. S. A.).

LEE HINCHMAN CLARK, *Assistant in Physical Chemistry* *Chemistry*

Investigations of the Chemistry of Colloids, more Particularly on the Properties of Emulsions.

EUGENE JOSEPH HASSELBECK, *Assistant in Chemistry* *Chemistry*

Ortho-and Para-hydroxydiphenyl and some of Their Derivatives.

FREDERICK NILL, *Assistant in Chemistry* *Chemistry*

Para-ethoxy-and Para-methoxy-benzoyl-benzoic Acid and Some of Their Derivatives.

ANNA LAURA WHITE, *Assistant in Physics.* *Physics*

Effect of Absorbed Gas on the Resistance of Thin Films (Senior thesis).

ANDREWS CLEMENT WINTRINGHAM, *Assistant in Chemistry* *Chemistry*

A New Method of Analysis of the Nitro-compounds of the Aromatic Series.

THOMAS STEVENS CLARK, C.E. (Cornell 1894) *Chief Engineer, Alphons Custodis Chimney Construction Co.* H. S. Jacoby *et al.* Modulus of Elasticity for Various Mixtures of Stone and Cinder Concrete. The World's Largest Chimney: 50x506 ft. Straightening a Tall Leaning Factory Chimney by a New Method. Analysis and Details of Tall Chimneys.

FRANCIS HARPER, A.B. (Cornell 1914) *With U. S. Biological Survey.* *Zoology*

The Birds of Okefinakee Swamp, Ga. (Joint paper). Several other Papers on Birds, Direct Color Photography, and Exploration. Report to Victoria National Museum (Ottawa, Can.). Report on Investigations in Florida (U. S. Biological Survey). Study of the Rat Problem in the Trenches.

F. G. SWITZER, *Secretary.*

NEBRASKA CHAPTER

The following members were elected to the Nebraska Chapter on May 9:

ALUMNUS

ORRINGTON T. SWAN, A.B. 1903; B.Sc. 1904 *Botany*
Density Rules and Their Applications to Timbers. *Lumber World Review*
July 10, 1915.

FACULTY

LEUNIS VAN ES, M.D.; V.S. *Animal Pathology*
Sur la nature anaphylactique de l'intoxication parasitaire, par L. Van Es et A. F. Schalk. *Annales de l'Institut Pasteur.* Avian Tuberculosis. Bulletin 108 N. D. Agr. Epr. Sta. Über die intrak. Anw. von Vogeltub. Z. festst, der Hükner tub. Zeitscher. f. Infekt. Krh., parasit. Krk. u. Hyg. d. Haustiere. Bnd. XIV p. 271, 1913.

GRADUATES

ROSCOE C. ABBOTT, B.Sc. 1910; A.M. 1918 *Chemistry*
A New Method for the Determination of Sodium and Potassium.—thesis for A.M.
THEOS. J. THOMPSON, A.B. 1903; A.M. 1915 *Chemistry*
Preparation of Yttrium Chloride Acetate—thesis for A.M.
LOUIS O. WOLFAUGER *Geography*
Soil Survey Chase County. Economic Geography of the Sand Hills of Nebraska.

SENIORS

PAUL LINDLEY *Applied Mechanics*
JAMES S. MARTIN *Physics and Elec. Eng.*
ROBERT ALEXANDER NESBIT *Botany*
A Method of Making Toto Mounts of Unicellular Mounts. Trans. Am. Mic. Soc. XXX, 139.
CARL FREDERICK RUSCHE *Zoology*
A New Plagiorchis Trematode Parasitic in the American Muskrat with a Key of the Species of Plagiorchis.—senior-thesis.

ILLINOIS CHAPTER, 1918-19

During the year the Illinois Chapter has held nine meetings at eight of which a scientific program was presented. A social hour was held immediately following each of these programs.

The list of meetings with speakers and topics is as follows:

November 20, The Illinois Eclipse Expedition to Rock Springs, Wyoming, by Professor Joel Stebbins.

December 18, Chicago as a Gateway for the Return of Life at the Close of the Glacial Period, by Frank C. Baker.

January 15, Fatigue in Metals, by Professor Herbert F. Moore.

February 19, An Experimental Demonstration of a New Source of Sound, by Professor C. T. Knipp.

March 19, Fixation and Nitrification in Relation to the Nitrogen Problem, by Professor A. L. Whiting.

April 16, River and Forest in Illinois, by Professor Stephen A. Forbes.

May 21, Address to the Initiates by Professor Charles Zeleny, President.

May 28, Joint meeting with Phi Beta Kappa, at which Dr. Thomas Hunt Morgan, Professor of Experimental Zoology at Columbia University, spoke on "Which Theory of Evolution Applies to Man."

The list of elections with basis of election is given below:

ELECTED AS ACTIVE MEMBERS

FROM THE FACULTY

ARTHUR BYRON COBLE, A.B., A.M., Ph.D.

Mathematics

Symmetric Binary Forms and Involutions. *Am. Jour. Math.* 31 (1909), 32 (1910). The Reduction of Setic Equations to the Valentiner Form Problem. *Math. Annalen* 70 (1910). An Application of Moore's Cross-ratio Group to the Solution of the Setic Equation. *Trans. Am. Math. Soc.*, 12 (1911). An Application of Finite Geometry to the Characteristic Theory of Odd and Even ? fcns. *Trans. Am. Math. Soc.*, 14 (1913). Restricted Systems of Equations. *Am. Jour. Math.*, 36 (1914). (Also other papers.)

WILSON FORSYTHE MONTFORT, A.B., A.M.

Chemistry

The Water Supply of St. Louis. Report of the Water Commissioner, 1913. Note on Ortho-Tolidin Test for Free Chlorine. *Jour. Am. Water Works Assoc.*, Vol. 1, No. 4, Dec. 1914. Dry Feed of Chemicals in Water

Purification. Jour. Amer. Water Works Assoc., Vol. 2, No. 1, March, 1915. Notes on Water Purification at St. Louis. Presented at Amer. Water Works Assoc. (Also other papers).

JAMES THERON ROOD, B.S., Ph.D. *Railway Engineering*
Vibrations of Telephone Diaphragms. A study of the Relation Between Tension and Magnetic Permeability. A. A. A. S. Meeting, Columbia University, Dec. 29, 1916. Resume of same, Electrical World, Jan. 1917.

FROM GRADUATE STUDENTS

JOHN BERNIS BROWN, B.S., M.S. *Chemistry*
The Body Fat of the Common Woodchuck, *Marmota monax*. Read at the Boston Meeting of the Am. Chem. Soc., Sept., 1917. The Fat of the Striped Pocket Gopher. Read at the Boston Meeting of the Am. Chem. Soc., Sept., 1917. Synthesis of Pure Fatty Acids. Chemical War Problem, N. R. C. No. 112.

GEORGE BLACKLANE CLAYCOMB, Ph.B., M.S. *Zoology*
Petrie Dish Projects. Habits of *Heterocerus* Beetles. A Wave of Life. Distribution and Abundance of *Entomostraca* in Flathead Lake (Montana). Animals of Milk Weed—thesis for M.S.

CHARLES WILLIAM COLVER, B.S., M.S. *Chemistry*
The Composition of Irrigated and Non-Irrigated Apples. By J. S. Jones, C. W. Colver, The Jour. of Agr. Sci., 5, 424 (1913). Dry Farmed and Irrigated Wheat. J. S. Jones, C. W. Colver, Bull. 88, Idaho Exp. Sta. Synthesis of Anthracene—thesis for Ph.D. (Also other papers).

HERBERT E. FRENCH, B.A., A.M. *Chemistry*
Oxalyl Chloride as a Reagent in Organic Chemistry. Preparation of Aromatic Acid Anhydrides: Reaction with Alcohols. Jour. Am. Chem. Soc. 40, 424 (1918).

ARTHUR GUSTAV GEHRIG, B.S. *Civil Engineering*
Effect of Heat Treatment on the Fatigue Strength of Alloy Steel—thesis for M.S.

EZRA CLARENCE HARRAH, A.B. *Zoology*
Studies on Monostomes A—thesis for Ph.D.

LLOYD BELSFORD HOWELL, A.B., M.S.
Positive Halogen in Organic Compounds. Iodine in Diiodoacetylene and Iodochloroethylene—thesis for Ph.D.

WARREN A. RUTH, A.B., A.M. *Botany*
Field Experiments in Spraying Apple Orchards. Ill. Agr. Exp. Sta. Bull. 185: (1916). Fertilizer Problems and their Relation to Quantities, Size and Quality of Fruit. Trans. Ill. Hort. Soc., 46, 64-74, 1912. Chlorophyll Content of Leaves—thesis for Ph.D. (Also other papers).

ERNEST R. SCHULZ, B.A., M.S. *Agronomy*
Chemical and Physical Composition of the Corn Kernel as Affected by Crossing—thesis for Ph.D.

- HERBERT AUGUST WINKELMANN, B.S., M.S. *Chemistry*
 The Determination of Organic Compounds in Low Concentration—
 thesis for Ph.D.

ELECTED AS ASSOCIATE MEMBERS

GRADUATE STUDENTS

- DOROTHY J. CASHEN, B.A. *Botany*
 The Relation of Evaporation to Plant Succession—senior thesis.
- GEORGE HOPKINS COLEMAN, B.A. *Chemistry*
- MARGARET KATE DAWSON, A.B. *Physics*
- WILLIAM E. EDINGTON, A.B. *Mathematics*
- RALPH DANIEL REED, B.S. *Geology*
- JOSEPH B. ROSENBACH, A.B. *Mathematics*
- MARCENA E. RUSSELL, B.A. *Mathematics*
 Actuarial Study of Health Insurance for a Large Department Store—
 thesis for M.A.
- ARSHAG K. SUERIAN, A.B. *Zoology*
- ESTHER A. WAGNER *Bacteriology*
 A Study of Bacteria in Well Waters—thesis for M.A.

SENIORS

- CLARENCE EHNI BROEKER *Chemical Engineering*
 Conductivity of Dilute Aqueous Solutions of Hydrochloric Acid—senior
 thesis.
- ARTHUR DAVID CASKEY *Electrical Engineering*
 Characteristics of Vacuum Tubes for Radio-Telegraphy—senior thesis.
- GERALD J. COX *Chemistry*
- R. W. DAWLEY *Chemistry*
 Transference in Dilute Amalgams of the Alkali Metals—senior thesis.
- WILLIAM F. EINBECKER, B.S. *Chemistry*
 Examination of Zinc Flue Dust for Rare Elements—senior thesis.
- P. M. GINNINGS *Chemical Engineering*
 The Synthesis of Cyclic Esthers—senior thesis.
- JOSEPH D. GREEN *Psychology*
 Mental and Motor Ability of Adolescents—senior thesis.
- JOSEPH L. HALL *Chemical Engineering*
 Transference Numbers of Sodium and Potassium in Mixed Chloride
 Solutions—senior thesis.
- E. T. HOWELL *Chemical Engineering*
 Studies in Furane Series—senior thesis.

- JOHN R. JOHNSON *Chemistry*
 HOWARD AUGUSTUS MEYERHOFF *Geology*
 ELEANOR E. MUTH *Home Economics*
 Diabetes Mellitus, its Dietetic Treatment and its Relation to Glycuresis—
 senior thesis.
- RALPH S. SCHNEIDER *Chemistry*
 The Heats of Dilution of Certain Salt Solutions—senior thesis.
- MADELINE SLOAN *Home Economics*
 The Value of Vegetable Protein for Maintaining the Hydrogen Equilib-
 rium of the Body—senior thesis.
- A. F. THAL *Chemical Engineering*
 A Study of the Preparation of Glycols—senior thesis.
- ERNEST WILLIAM THIELE *Chemical Engineering*
 The Extraction of Caesium and its Compounds from Pollucite—senior
 thesis.
- MARIE WESSELS *Zoology*
 Nasal Structure of a Lizard—senior thesis.
- E. H. WILLIAMS, *Secretary.*

CHICAGO CHAPTER

ELECTED FEBRUARY 25, 1919

- HELEN JEANETTE ALLEN *Zoology*
 Glycogen in Chick Embryo.
- HERBERT BELL *Mathematical Physics*
 Mathematical Tables, Napier tercentenary handbook. Text book on
 Spherical Trigonometry. Spectral series and Atomic Number.
- CLYDE JOHN BOLLINGER *Geography*
 Working on an important geographic problem of Southern Michigan.
- AMANDO CLEMENTE *Chemistry*
 The Detinning and Analysis of Tin Plate. Dezincing and Analysis of
 Galvanized Iron (with Mr. Heise). Adsorption in Charcoal.
- LILLIE EICHELBERGER *Chemistry*
 A Colorimetric Method for the Determination of Dinitro-oxyphenyl
 arsinic Acid in Mononitro-oxyphenyl arsinic Acid.
- DWIGHT TARBELL EWING *Chemistry*
 Action of Trioxymethylene on Paraxylene in the presence of Anhydrous
 Aluminum Chloride (with R. C. Huston). Density of Solutions of
 Lithium Iodide. Surface Tension of Hydrocarbons and of Dichloroethyl
 Sulphide (mustard gas oil). Adsorption at the surface of Charcoal.
- ANANT MADHAV GURJAR *Botany*
 Method (improved) for CO₂. Resp. of stored wheat.

- ARTHUR WING HAUPT *Botany*
A Morphological study of *Pallavicinia Lyellii*. The life history of *Fossombronina cristula*.
- MARIE AGNES HINRICHS *Zoology*
Effect of Alkaloids on *Planaria dorotocephala*.
- HIKOKURO HONDA *Zoology*
Spermatogenesis of Aphids. Life History of some free living Nematodes.
- JACOB ROBERT KANTOR *Psychology*
Conscious Behavior of the Abnormal. Psychology as Science of Evolution. Human Personality and its Pathology.
- HELEN LOIS KOCH *Psychology*
Influence of Extraneous Controls in Learning.
- ELMIRA LODOR *Psychology*
Mental Control of the Involuntary Start.
- GEORGE ELMER MILLER *Organic Chemistry*
Research on the separation of optical isomers in the four-carbon-atom saccharinic acids.
- FREDRIC MAX NICHOLSON *Anatomy*
Cytology of Nerve Cells.
- DEAN ALVIN PACK *Botany*
Two Ciliata of Great Salt Lake. Germination and After-ripening of *Juniperus*.
- HAZEL MARGUERITE SCHMOLL *Botany*
Ecological survey of a portion of Cook County, Illinois.
- HAL W. SHERMAN *Pathology*
Articles on immunological subjects.
- ARTHUR WARE SLOCOM *Paleontology*
A list of Devonian Fossils Collected in Western New York, with notes on their Stratigraphic Distribution. *Hypsocrinus*, a new Genus of Crinoids from the Devonian (with F. Springer). New Crinoids from the Chicago Area. New Echinoids from the Ripley Group of Mississippi. New Trilobites from the Maquoketa beds of Fayette County, Iowa.
- KARL THEODOR STEIK *Chemistry*
Has published work on Cements while at University of Wyoming. Ph.D. candidate—research now in progress.
- EDWARD JULIUS STIEGLITZ *Anatomy*
Research on Kidney.
- PERRY DANIEL STRAUSBAUGH *Botany*
Engaged in a critical study of the Stellar Structures in *Smilax*.
- HARRY BENJAMIN VANDYKE *Anatomy*
Cytology of Neuroglia Cell.

CHAPTER REPORTS

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CHESTER KEELER WENTWORTH

Geology

A Proposed Dip Protractor. Experimental Study of Erosion of Cobbles in Transit. Experimental Study of Elastico-Viscous Flow in Ice.

ELECTED TO ASSOCIATE MEMBERSHIP

EVERETT NAUGHTIN COLLINS

JULIUS BAHR KAHN

PHILENA ANNE YOUNG

ELECTED MAY 15, 1919

STEWART BASTERFIELD

Chemistry

Research on Derivations of Urea Esters.

FLORENCE MAY BRUMBACK

Botany

Ecological Study of Canyons near Colorado Springs, Colo.

GLADYS ELIZABETH CARSON GIBBENS

Mathematics

Research started: "Osculating Algebraic Functions."

FREDERICK ORVILLE GROVER

Botany

Various papers in Rhodora. Key to winter conditions of trees. Directing student research.

CAROLINE GORE HOWE

Botany

HERBERT ELLIS LANDES

Physiological Chemistry

A New Method of Duodenectomy (with Dr. Moorhead); Research in progress on Studies in Experimental Diabetes.

CHIH WEI LUH

Psychology

Research on "The Curve of Retention."

J. ALDEN MASON

Archaeology

Published work on Ethnology and Archaeology of Central and South America. Has done considerable field work.

EDWARD STEVENS ROBINSON

Psychology

Research on "Retroactive Inhibition."

GEORGE EULAS FOSTER SHERWOOD

Mathematics

Thesis on "Equivalence of Sets of Bilinear Forms." Associate Professor at the Colorado School of Mines.

JOHN FRANK WRIGHT

Geology

Has worked four summers on the Canadian Geological Survey.

WERNER CHARLES ZAHN

Geography

Thesis on "Geography of Region about Cape of Good Hope."

ELECTED TO ASSOCIATE MEMBERSHIP

SAMUEL CHESTER HENN	JEANNETTE RIDLON
MARIETTA EICHELBERGER	GEORGE ROSS ROBERTSON
LOUIS LEITER	GERTRUDE WILLIAMS
KATHARINE LUCILLE McCLUSKEY	SYBIL WOODRUFF
WALTER LINCOLN PALMER	ERNEST BLOOMFIELD ZEISLER

CHICAGO IDEALS

It is the policy of the University of Chicago Chapter of Sigma Xi to elect to active membership only such students as give unequivocal evidence of productive research work of an independent character. In accordance with this principle, students who are carrying on research with substantially complete dependence for guidance from instructors would not be regarded as properly qualified. It is recognized that the conditions of research in different departments make it difficult to carry out this policy with entire consistency, especially, as in some instances, a large part of the research work which may be undertaken for the doctorate is apt to be done after completing the local residential requirements. Nevertheless, the Chapter feels that the best interest of the Society and of the scientific research will be consulted by as rigid an application as possible of the principle described.